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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 9

Complete if Known

Application Number	09/394,867
Filing Date	9/13/1999
First Named Inventor	WILLIAMS
Group Art Unit	1632 1633
Examiner Name	Maria Marvich
Attorney Docket Number	7037-377

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		Number-Kind Code (if known)			
		4,727,059	02-01-1988	Binder	
		4,839,464	06-01-1989	McCarthy	
		4,980,279	12-01-1990	Peters	
		5,004,681	04-02-1991	Boyse	
		5,019,646	05-28-1991	Furcht	
		5,102,988	04-07-1992	Kimizuka	
		5,116,368	05-26-1992	McCarthy	
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		5,188,959	02-23-1993	Haberman	
		5,198,423	03-30-1993	Taguchi	
		5,229,172 A1	07-20-1993	Cahalan et al	
		5,299,172	03-29-1994	Badger	
		5,409,825	04-25-1995	Hoffman	

duplicates

Examiner Signature	<i>M. Marvich</i>	Date Considered	<i>7/9/06</i>
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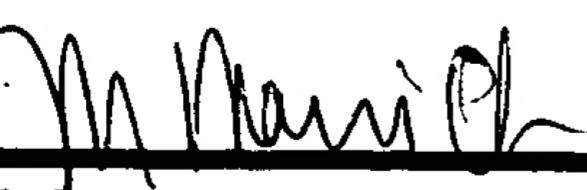
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				Examiner Name	Maria Marvich
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite 1 No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code- Number-Kind Code (if known)				
		EP 0 349 342	A2	01-03-1990	Takara Shuzo Co. Lt	
		EP 0 399 806	A1	11-28-1990	Taguchi	
		JP 2 311498		12-01-1989	Takara Shuzo Co. Lt	
		JP 2 97397		09-04-1990	Takara Shuzo Co. Lt	
		WO 90/13641		11-15-1990	Gilboa	
		WO 93/18137	A1	09-16-1993	Shih	
		WO 94/02610		02-03-1994	Marasco	
		WO 95/26200		10-05-1995	Williams	

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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		"Bubble Boy saved by gene therapy", BBC News, April 3, 2000	<input type="checkbox"/>
		"Cell-Cell Adhesion and the Extracellular Matrix", Molecular Biology of the Cell, 1983, pp. 673-713, Garland Publishing Co., New York	<input type="checkbox"/>
		ANDERSON, W. FRENCH, "Prospects for Human Gene Therapy",	<input type="checkbox"/>
		ANDERSON, W. FRENCH, "Human Gene Therapy - SCIENCE", SCIENCE, May 8, 1992, Vol./Issue No. 256, pp. 808-813	<input type="checkbox"/>
		APPERLEY, J.F. ET AL., "Retroviral Gene Transfer of Human Adenosine Deaminase in Murine Hematopoietic Cells: Effect of Selectable Marker Sequences on Long-Term Expression", Amer. Soc. Hematology 1991, pp. 310-317	<input type="checkbox"/>
		ASHWELL, G. ET AL., "Carbohydrate-Specific Receptors of the Liver", Ann. Rev. Biochem, 1982, Vol./Issue No. 51, pp. 531-554	<input type="checkbox"/>
		BERNARDI ET AL., "Lymphoid Precursor Cells Adhere to Two Different Sites on Fibronectin", J. Cell Biol., 1987, Vol./Issue No. 105, pp. 489-498	<input type="checkbox"/>
		BIENZLE, DOROTHEE ET AL., "Gene transfer into hematopoietic stem cells: Long-term maintenance of in vitro activated progenitors without marrow ablation", Proc. Natl. Acad. Sci. USA, 1994, Vol./Issue No. 91, pp. 350-354	<input type="checkbox"/>
		BODINE, D.M. ET AL., "Long-term in vivo expression of a Murine Adenosine Deaminase Gene in Rhesus Monkey Hematopoietic Cells of Multiple Lineages After Retroviral-mediated Gene Transfer into CD34+ Bone Marrow Cells", Blood, 1993, Vol./Issue No. 82, pp. 1975-1980	<input type="checkbox"/>
		BODINE, DAVID M., ET AL., "Development of a High-Titer Retrovirus Producer Cell Line Capable of Gene Transfer into Rhesus Monkey Hematopoietic Stem Cells", Proc. Natl. Acad. Sci. USA, 1990, Vol./Issue No. 87, pp. 3738-3742	<input type="checkbox"/>
		BRADLEY, T.R. ET AL., "The Growth of Mouse Bone Marrow Cells in Vitro", Aust. J. Exp. Biol. Med. Sci., 1966, Vol./Issue No. 44, pp. 287-300	<input type="checkbox"/>
		BROXMEYER, H.E. ET AL., "Umbilical Cord Blood Hematopoietic Stem and Repopulating Cells in Human Clinical Transplantation", Blood Cells, 1991, Vol./Issue No. 17, pp. 313-329	<input type="checkbox"/>
		BROXMEYER, H.E. ET AL., "The future of Umbilical Cord Transportation", Umbilical Cord Blood Transportation, pp. 321-329	<input type="checkbox"/>

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				Examiner Name	Maria Marvich
				Attorney Docket Number	7037-377
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		T ²			
		CARTER, ET AL., "Autologous Transplantation of Canine Long-Term Marrow Culture Cells Genetically Marked by Retroviral Vectors", Blood, 1992, Vol./Issue No. 79:2, pp. 356-364			
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		CORNELLA, ET AL., "Protamine sulfate as an effective alternative to polybrene in retroviral-mediated gene-transfer: implications for human gene therapy", Journal of Virological Methods, 1989, Vol./Issue No. 23 pp. 187-194			
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		CRISTIANO, R.J., ET AL., "Hepatic Gene Therapy: Adenovirus Enhancement of Receptor-Mediated Gene Delivery and Expression in Primary Hepatocytes", Proc. Natl. Acad. Sci. USA, 1993, Vol./Issue No. 90 pp. 2122-2126			
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		DILBER, MS. ET AL., "Basic fibroblast growth factor increases retroviral-mediated gene transfer into human hematopoietic peripheral blood progenitor cells", Exp. Hematol., 1994, Vol./Issue No. 22:12, pp. 1129-1133			
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		EMONS, G. ET AL., "The Use of Luteinizing Hormone Releasing Hormone Agonists and Antagonists in Gynecological Cancers", Hum. Reprod., 1994, Vol./Issue No. 9:7, pp. 1364-1379			
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		FICHARD ET AL., "Another Look at Collagen V and XI Molecules", Matrix Biology, 1994, Vol./Issue No. 14, pp. 515-531			
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		FLASSHOVE, M. ET AL., "Increased resistance to taxol for peripheral blood progenitor cells following transduction with an MDR1-encoding retroviral vector", Exp. Hematol., 1995, Vol./Issue No. Abstract 23/8 pp. 934			
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		FLASSHOVE, MICHAEL, ET AL., "Ex Vivo Expansion and Selection of Human CD34+ Peripheral Blood Progenitor Cells After Introduction of a Mutated Dihydrofolate Reductase cDNA via Retroviral Gene Transfer", Blood, January 2, 1995, Vol./Issue No. 85:2 pp. 566-574			
		<input type="checkbox"/>			
		FRIEDMANN, THEODORE, "Progress Toward Human Gene Therapy", SCIENCE, June 1989, pp. 1276-1281			
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		GARDNER, ELTON JOHN ET AL., "Somatic-Cell Gene Therapy Treatment of Human Diseases", Principles of Genetics, , Vol./Issue No. Chapter 24 Genetic Engineering and the Future, pp. 645-648, John Wiley & Sons, New York			
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		GLUCKMAN, E. ET AL., "Bone Marrow Transplantation in Fanconi Anemia", British J. of Haem., 1980, Vol./Issue No. 45, pp. 557-564			
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		HANENBERG, A. ET AL., "Rapid and efficient transduction of primitive hematopoietic cells; role of retrovirus adhesion in fibronectin assisted gene transfer", Blood, 1995, Vol./Issue No. 86:10, pp. 465a			
		<input type="checkbox"/>			
		HARAGUCHI ET AL., "Effects of Polycations on Infection with Human Retroviruses", Int. Conf. AIDS, 1994, Vol./Issue No. 10:2, pp. 114			
		<input type="checkbox"/>			
Examiner Signature	<i>My Name PL</i>			Date Considered	4/19/06

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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		HODGSON, CLAQUE P. ET AL., "Virosomes: Cationic Liposomes Enhance Retroviral Transduction", Nature Biotechnology, 1996, Vol./Issue No. 14, pp. 339-342	<input type="checkbox"/>
		HOGGE, DONNA E. ET AL., "The Elusive Peripheral Blood Hematopoietic Stem Cell", Seminars in Hematology, 1993, Vol./Issue No. 30:4 Supp. 4, pp. 82-89	<input type="checkbox"/>
		HOSHINO, K., "Effects of polycations on infection of human retroviruses", Working Group on Structure and function of HIV, "Working Report of 1993", 1994, Vol./Issue No. Partial Translation, pp. 24-27	<input type="checkbox"/>
		HOWELL, A. ET AL., "Response to a Specific Antioestrogen (ICI 182780) in Tamoxifen-Resistant Breast Cancer", The Lancet, 1995, Vol./Issue No. 345, pp. 29-30	<input type="checkbox"/>
		HOWS, J.M. ET AL., "Growth of human umbilical cord blood in longterm haemopoietic cultures", Lancet, July 11, 1992, Vol./Issue No. 340, pp. 73-76	<input type="checkbox"/>
		KARLSSON, STEFAN, "Treatment of Genetic Defects in Hematopoietic Cell Function by Gene Transfer", Blood, 1991, Vol./Issue No. 78:10, pp. 2481-2492	<input type="checkbox"/>
		KASAHARA, N. ET AL., "Tissue-Specific Targeting of Retroviral Vectors Through Ligand-Receptor Interactions", Science, 1994, Vol./Issue No. 265, pp. 1373-1376	<input type="checkbox"/>
		KIMIZUKA ET AL., "Production and Characterization of Functional Domains of Human Fibronectin Expressed in Escherichia coli", J. Biochem., 1991, Vol./Issue No. 110:2, pp. 284-291	<input type="checkbox"/>
		KLIJN, J.G.M. ET AL., "Pre-Clinical and Clinical Treatment of Breast Cancer With Antiprogestins", Hum. Reprod., 1994, Vol./Issue No. 9 Supp. 1, pp. 181-189	<input type="checkbox"/>
		KOHLI-KUMAR, M. ET AL., "Haematopoietic Stem/Progenitor Cell Transplant in Fanconi Anaemia Using HLA-Matched Sibling Umbilical Cord Blood Cells", British J. Haem., 1993, Vol./Issue No. 85, pp. 419-422	<input type="checkbox"/>
		KORNBLIHTT, A.R., ET AL., "Isolation and characterization of cDNA clones for humans and bovine fibronectin", Proc. Natl. Acad. Sci. USA, 1983, Vol./Issue No. 80:11, pp. 3218-3222	<input type="checkbox"/>
		KORNBLIHTT, A.R., ET AL., "Human fibronectin: cell specific alternative mRNA splicing generates polypeptide chains differing in the number of internal repeats", Nucleic Acids Res., 1984, Vol./Issue No. Abstract 12/14, pp. 5853-5868	<input type="checkbox"/>
		KORNBLIHTT, A.R., ET AL., "Human fibronectin: molecular cloning evidence for two mRNA species differing by an internal segment coding for a structural domain", EMBO J., 1984, Vol./Issue No. Abstract 3/1, pp. 221-226	<input type="checkbox"/>

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		1/19/04

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		KORNBLIHTT, A.R., ET AL, "Primary structure of human fibronectin: differential splicing may generate at least 10 polypeptides from a single gene", EMBO J., 1985, Vol./Issue No. 4:7, pp. 1755-1759	<input type="checkbox"/>	
		LIM, B., ET AL., "Retrovirus-Mediated Gene Transfer of Human Adenosine Deaminase: Expression of Functional Enzyme in Murine Hematopoietic Stem Cells in Vivo", Mol. Cell. Biol., 1987, Vol./Issue No. 7:10 pp. 3459-3465	<input type="checkbox"/>	
		LIM, ET AL., "Long-Term Expression Of Human Adenosine Deaminase In Mice Transplanted With Retrovirus-Infected Hematopoietic Stem Cells", Proc. Natl. Acad. Sci. U.S.A., 1989, Vol./Issue No. 86, pp. 8892-8896	<input type="checkbox"/>	
		LONG, MICHAEL W., "Blood Cell Cytoadhesion Molecules", Exp. Hematol, 1992, Vol./Issue No. 20, pp. 288-301	<input type="checkbox"/>	
		LU, L. ET AL., "CD34 stem/progenitor cells purified from cryopreserved cord blood can be transduced with high efficiency by a retroviral vector and expanded ex vivo with stable integration and expression of fanconi anemia complement c gene", Blood, 1994, Vol./Issue No. Abstract 84/10 Supp. 1 pp. 355a	<input type="checkbox"/>	
		LUSKEY, B.D., ET AL., "Stem Cell Factor, Interleukin-3, and Interleukin-6 Promote Retroviral-Mediated Gene Transfer Into Murine Hematopoietic Stem Cells", Blood, 1992, Vol./Issue No. 80:2, pp. 396-402	<input type="checkbox"/>	
		MARKOWITZ, D. ET AL., "A Safe Packaging Line for Gene Transfer: Separating Viral Genes on Two Different Plasmids", J. Virol., 1988, Vol./Issue No. 62:4, pp. 1120-1124	<input type="checkbox"/>	
		MARKOWITZ, D. ET AL., "Construction and Use of a Safe and Efficient Amphotropic Packaging Cell Line", Virology, 1988, Vol./Issue No. 167, pp. 400-406	<input type="checkbox"/>	
		MCGLAVE P. ET AL., "Interaction of primitive human myeloid and lymphoid progenitors with the marrow microenvironment", Blood Cells, 1994, Vol./Issue No. 20:1, pp. 121-128	<input type="checkbox"/>	
		MERWIN, JUNE R. ET AL., "Targeted Delivery of DNA Using YEE(GalNAcAH)3, a Synthetic Glycopeptide Ligand for the Asialoglycoprotein Receptor", Bioconjugate Chem., 1994, Vol./Issue No. 5:6 pp. 612-620	<input type="checkbox"/>	
		MILLER, A. DUSTY, "Human Gene Therapy Comes of Age", Nature, June 11, 1992, Vol./Issue No. 357, pp. 455-460	<input type="checkbox"/>	
		MOORE, KATERI A. ET AL., "Stromal Support Enhances Cell-Free Retroviral Vector Transduction of Human Bone Marrow Long-Term Culture-Initiating Cells", Blood, 1992, Vol./Issue No. 79:6, pp. 1393-1399	<input type="checkbox"/>	
		MOORE, M.A., ET AL., "Gene Therapy: New Frontiers, an International Symposium", Meeting Abstract: Dublin, Ireland, Sept. 18-21, 1994, pp. 1-2	<input type="checkbox"/>	

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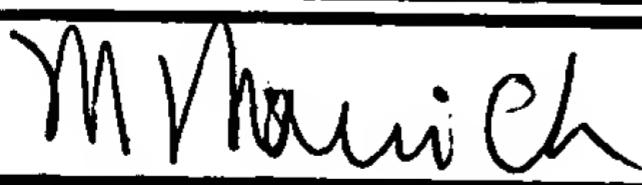
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		NGO, ET AL., "The Protein Folding Problem and Tertiary Structure Prediction", 1994, pp. 492-495, Birkhäuser, Boston, US	<input type="checkbox"/>
		NOJIMA, YOSHIHISA ET AL., "Ligation of VLA-4 on T Cells Stimulates Tyrosine Phosphorylation of a 105-kD Protein", J. Exp. Med., 1992, Vol./Issue No. 175, pp. 1045-1053	<input type="checkbox"/>
		OHASHI, T., ET AL., "Efficient Transfer and Sustained High Expression of the Human Glucocerebrosidase Gene in Mice and Their Functional Macrophages Following Transplantation of Bone Marrow Transduced by a Retroviral Vector", Proc. Natl. Acad. Sci. USA, 1992, Vol./Issue No. 89	<input type="checkbox"/>
		PATEL ET AL., "Generation of interleukin-2 Secreting melanoma Cell Populations from Resected Metastatic Tumor", Human Gene Therapy, 1994, Vol./Issue No. 5, pp. 577-584	<input type="checkbox"/>
		PATEL, ET AL., "Loss of Adhesion of Murine Erythroleukemia Cells to Fibronectin During Erythroid Differentiation", Science, 1984, Vol./Issue No. 224, pp. 996-998	<input type="checkbox"/>
		REISBACH, G. ET AL., "Characterization of hemopoietic cell populations from human cord blood expressing c-kit", Exp. Hematol., 1993, Vol./Issue No. 21, pp. 74-79	<input type="checkbox"/>
		RUOSLAHTI, E., "Fibronectin: Purification, Immunochemical Properties, and Biological Activities", Methods in Enzymology, 1982, Vol./Issue No. 82, pp. 803-831	<input type="checkbox"/>
		RUOSLAHTI, E., "Fibronectin and Its Receptors", Ann. Rev. Biochem., 1988, Vol./Issue No. 57, pp. 375-413	<input type="checkbox"/>
		RUOSLAHTI, E. ET AL., "Alignment Of Biologically Active Domains in The Fibronectin Molecule", J. Bio. Chem., 1981, Vol./Issue No. 256, pp. 7277-7281	<input type="checkbox"/>
		SAIKI, IKUO ET AL., "Inhibitory effect of fibronectin and its recombinant polypeptides on the adhesion of metastatic melanoma cells to Laminin", Jpn. J. Cancer Res., 1991, Vol./Issue No. 82, pp. 1112-1119	<input type="checkbox"/>
		SEKIGUCHI, K. ET AL., "Human Liver Fibronectin Complementary DNAs: Identification of Two Different Messenger RNAs Possibly Encoding the α and β Subunits of Plasma Fibronectin", Biochemistry, 1986, Vol./Issue No. 25, pp. 4936-4941	<input type="checkbox"/>
		SHIH, C.-C., ET AL., "Highly Preferred Targets for Retrovirus Integration", Cell, 1988, Vol./Issue No. 53, pp. 531-537	<input type="checkbox"/>

Examiner Signature		Date Considered	1/19/06
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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

<p style="text-align: center;">Substitute for form 1449A/PTO</p> <p style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p style="text-align: center;"><i>(use as many sheets as necessary)</i></p>				<p style="text-align: center;">Complete if Known</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td style="width: 50%;">09/394,867</td> </tr> <tr> <td>Filing Date</td> <td>9/13/1999</td> </tr> <tr> <td>First Named Inventor</td> <td>WILLIAMS</td> </tr> <tr> <td>Group Art Unit</td> <td>1632 1633</td> </tr> <tr> <td>Examiner Name</td> <td>Maria Marvich</td> </tr> <tr> <td>Attorney Docket Number</td> <td>7037-377</td> </tr> </table>		Application Number	09/394,867	Filing Date	9/13/1999	First Named Inventor	WILLIAMS	Group Art Unit	1632 1633	Examiner Name	Maria Marvich	Attorney Docket Number	7037-377
Application Number	09/394,867																
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Attorney Docket Number	7037-377																
Sheet	8	of	9														

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	T ²
		SINGH, VINOD ET AL., "Hormonotoxins: Preparation and Characterization of Ovine Luteinizing Hormone-Gelonin Conjugate", <i>Journal of Biological Chemistry</i> , 1989, Vol./Issue No. 264:6, pp. 3089-3095	<input type="checkbox"/>
		SORRENTINO, BRIAN P. ET AL., "Selection of Drug Resistant Bone Marrow Cells in Vivo After Retroviral Transfer of Human MDR1", <i>SCIENCE</i> , July 3, 1992, Vol./Issue No. 257, pp. 99-100	<input type="checkbox"/>
		SUTHERLAND ET AL., "Characterization and Partial Purification of Human Marrow Cells Capable of Initiating Long-Term Hematopoiesis In Vitro", <i>Blood</i> , 1989, Vol./Issue No. 74:5, pp. 1563-1570	<input type="checkbox"/>
		TOKSOZ ET AL., "Support of Human Hematopoiesis in Long-Term Bone Marrow Cultures by Muring Stromal Cells Selectively Expressing the Membrane-Bound and Secreted Forms of the Human Homolog of the Steel Gene Product Stem Cell Factor", <i>Proc. Natl. Acad. Sci. USA</i> 1992 Vol./Issue	<input type="checkbox"/>
		TOLCHER, A.W., "Current Status of Post-chemotherapy Tamoxifen in Early Breast Cancer", <i>Oncology</i> , November 1994, Vol./Issue No. 8/11, pp. 39-43	<input type="checkbox"/>
		TORRE, D. ET AL., "Interaction of human plasma fibronectin with viral proteins of human immunodeficiency virus", <i>Fems. Immunol. Med. Microbiol.</i> , 1994, Vol./Issue No. 8-2, pp. 127-131	<input type="checkbox"/>
		TSAI, SCHWICKWANN ET AL., "Differential binding of erythroid and myeloid progenitors to fibroblasts and fibronectin", <i>Blood</i> , 1987, Vol./Issue No. 69:6, pp. 1587-1594	<input type="checkbox"/>
		VALSESIA-WITTMANN, S. ET AL., "Modifications in the Binding Domain of Avian Retrovirus Envelope Protein to Redirect the Host Range of Retroviral Vectors", <i>J. Virol.</i> , 1994, Vol./Issue No. 68:7 pp. 4609-4619	<input type="checkbox"/>
		VAN BEUSECHEM, V.W., ET AL., "Long-Term Expression of Human Adenosine Deaminase In Rhesus Monkeys Transplanted with Retrovirus-Infected Bone-Marrow Cells", <i>Proc. Natl. Acad. Sci. USA</i> 1992 Vol./Issue No. 89 pp. 7640-7644	<input type="checkbox"/>
		VAN DER SLUIJS, "Differential Adherence of Murine Hematopoietic Stem Cell Subsets to Fibronectin", <i>Experimental Hematology</i> , 1994, Vol./Issue No. 22, pp. 1236-1243	<input type="checkbox"/>
		VARMUS, HAROLD, "Retroviruses", <i>SCIENCE</i> , June 10, 1988, pp. 1427-1434	<input type="checkbox"/>
		VERFAILLIE, C.M., ET AL., "Differentiation of Primitive Human Multipotent Hematopoietic Progenitors Into Single Lineage Clonogenic Progenitors is Accompanied by Alterations in Their Interaction with Fibronectin", <i>J. Exp. Med.</i> 1991 Vol./Issue No. 174 pp. 693-703	<input type="checkbox"/>
		WAGNER, J.E. ET AL., "Transplantation of Umbilical Cord Blood After Myeloblastic Therapy. Analysis of Engraftment", <i>Blood</i> , 1992, Vol./Issue No. 79:7, pp. 1874-1882	<input type="checkbox"/>

Examiner Signature	<i>M. Marvich</i>	Date Considered
		1/19/06

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/394,867
(use as many sheets as necessary)				Filing Date	9/13/1999
Sheet	9	of	9	First Named Inventor	WILLIAMS
				Group Art Unit	1632 (633)
				Examiner Name	Maria Marvich
				Attorney Docket Number	7037-377

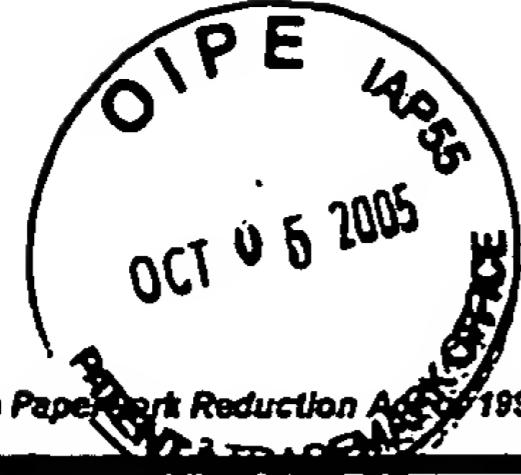
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	T ²
		WAGNER, J.E. ET AL., "Allogenic umbilical cord blood transplantation: Report of results in 26 patients", Blood, 1993, Vol./Issue No. Abstract, pp. 82-86a	<input type="checkbox"/>
		WATT ET AL., "Adhesion Receptors are differentially expressed on Developing Thymocytes and Epithelium in Human Thymus", Experimental Hematology, 1992, Vol./Issue No. 20, pp. 1101-1111	<input type="checkbox"/>
		WIGINTON, DAN A. ET AL., "Complete Sequence and Structure of the Gene for Human Adenosine Deaminase", Biochemistry, 1986, Vol./Issue No. 25, pp. 8234-8244	<input type="checkbox"/>
		WILLIAMS, DAVID A. ET AL., "Fibronectin and VLA-4 in Haematopoietic Stem Cell-Microenvironment Interactions", Nature, 1991, Vol./Issue No. 352, pp. 438-441	<input type="checkbox"/>
		XIAO, M. ET AL., "Extensive proliferative capacity of single isolated CD34 human cord blood cells in suspension culture", Blood Cells, 1994, Vol./Issue No. 20, pp. 455-467	<input type="checkbox"/>
		XU, L.C., ET AL., "Long-term in vivo expression of the human glucocerebrosidase gene in nonhuman primates after CD34+ hematopoietic cell transduction with cell-free retroviral vector preparations", Proc. Natl. Acad. Sci. USA, 1995, Vol./Issue No. 92, pp. 4372-4376	<input type="checkbox"/>
		XU, LINCHENG, ET AL., "Correction of the enzyme deficiency in hematopoietic cells of Gaucher patients using a clinically acceptable retroviral supernatant transduction protocol", Experimental Hematology, 1994, Vol./Issue No. 22, pp. 223-230	<input type="checkbox"/>
		YAO ET AL., "Primary myoblast-mediated gene transfer: persistent expression of human factor IX in mice", Gene Therapy, 1994, Vol./Issue No. 1:2, pp. 99-107	<input type="checkbox"/>
		ZIEGLER, B.L. ET AL., "Phenotype analysis of umbilical cord (CB) blood CD34 cell subpopulations", Blood, 1992, Vol./Issue No. 80 Supp. 1, pp. 408A	<input type="checkbox"/>

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				Filing Date	11/11/2003
				First Named Inventor	David A. WILLIAMS
				Group Art Unit	1633
				Examiner Name	
Sheet	1	of	10	Attorney Docket Number	7037-485

U.S. PATENT DOCUMENTS

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		4,727,059	02-01-1988	Binder	
		4,839,464	06-01-1989	McCarthy	
		4,980,279	12-01-1990	Peters	
		5,004,681	04-02-1991	Boyse	
		5,019,646	05-28-1991	Furcht	
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		5,124,155	06-23-1992	Reich	
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		5,409,825	04-25-1995	Hoffman	

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Sheet 2 of 10

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Filing Date	11/11/2003
First Named Inventor	David A. WILLIAMS
Group Art Unit	1633
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Attorney Docket Number	7037-485

FOREIGN PATENT DOCUMENTS

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		Country Code ³	Number ⁴ Kind Code ⁵ (if known)				
		EP 0 349 342	A2	01-03-1990	Takara Shuzo Co. Lt		
		EP 0 399 806	A1	11-28-1990	Taguchi		
		JP 2 311498		12-01-1989	Takara Shuzo Co. Lt		
		JP 2 97397		09-04-1990	Takara Shuzo Co. Lt		
		WO 90/13641		11-15-1990	Sloan-Kettering		
		WO 93/18137	A1	09-16-1993	Systemix Inc.		
		WO 94/02610		02-03-1994	Dana-Farber Cancer		
		WO 95/26200		10-05-1995	Indiana University F		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	107705-561 09/349867
Sheet	3	of	10	Filing Date	11/11/2003
				First Named Inventor	David A. WILLIAMS
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
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		"Cell-Cell Adhesion and the Extracellular Matrix", Molecular Biology of the Cell, 1983, pp. 673-713, Garland Publishing Co., New York			<input type="checkbox"/>
		"Bubble Boy saved by gene therapy", BBC News, April 3, 2000			<input type="checkbox"/>
		ANDERSON, F., "Human Gene Therapy", Nature, Apr. 30, 1998, Vol./Issue No. 392 Supp., pp. 25-30			<input type="checkbox"/>
		ANDERSON, W. FRENCH, "Human Gene Therapy - SCIENCE", SCIENCE, May 8, 1992, Vol./Issue No. 256, pp. 808-813			<input type="checkbox"/>
		ANDERSON, W. FRENCH, "Prospects for Human Gene Therapy",			<input type="checkbox"/>
		APPERLEY, J.F., ET AL., "Retroviral Gene Transfer of Human Adenosine Deaminase in Murine Hematopoietic Cells: Effect of Selectable Marker Sequences on Long-Term Expression", Amer. Soc. Hematology, 1991, pp. 310-317			<input type="checkbox"/>
		ASHWELL, G. ET AL., "Carbohydrate-Specific Receptors of the Liver", Ann. Rev. Biochem, 1982, Vol./Issue No. 51, pp. 531-554			<input type="checkbox"/>
		BERNARDI ET AL., "Lymphoid Precursor Cells Adhere to Two Different Sites on Fibronectin", J. Cell Biol., 1987, Vol./Issue No. 105, pp. 489-498			<input type="checkbox"/>
		BIENZLE, DOROTHEE ET AL., "Gene transfer into hematopoietic stem cells: Long-term maintenance of in vitro activated progenitors without marrow ablation", Proc. Natl. Acad. Sci. USA, 1994, Vol./Issue No. 91, pp. 350-354			<input type="checkbox"/>
		BODINE, D.M. ET AL., "Long-term in vivo expression of a Murine Adenosine Deaminase Gene in Rhesus Monkey Hematopoietic Cells of Multiple Lineages After Retroviral-mediated Gene Transfer into CD34+ Bone Marrow Cells", Blood, 1993, Vol./Issue No. 82, pp. 1975-1980			<input type="checkbox"/>
		BODINE, DAVID M., ET AL., "Development of a High-Titer Retrovirus Producer Cell Line Capable of Gene Transfer into Rhesus Monkey Hematopoietic Stem Cells", Proc. Natl. Acad. Sci. USA, 1990, Vol./Issue No. 87, pp. 3738-3742			<input type="checkbox"/>
		BRADLEY, T.R. ET AL., "The Growth of Mouse Bone Marrow Cells in Vitro", Aust. J. Exp. Biol. Med. Sci., 1966, Vol./Issue No. 44, pp. 287-300			<input type="checkbox"/>
		BROXMEYER, H.E. ET AL., "Umbilical Cord Blood Hematopoietic Stem and Repopulating Cells in Human Clinical Transplantation", Blood Cells, 1991, Vol./Issue No. 17, pp. 313-329			<input type="checkbox"/>
Examiner Signature	<i>MMurich</i>			Date Considered	1/19/06

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Sheet	4	of	10	Filing Date	11/11/2003
				First Named Inventor	David A. WILLIAMS
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				Attorney Docket Number	7037-485
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		BROXMEYER, H.E. ET AL., "The future of Umbilical Cord Transportation", Umbilical Cord Blood Transportation, , pp. 321-329			<input type="checkbox"/>
		CARTER, ET AL., "Autologous Transplantation of Canine Long-Term Marrow Culture Cells Genetically Marked by Retroviral Vectors", Blood, 1992, Vol./Issue No. 79:2, pp. 356-364			<input type="checkbox"/>
		CORNELLA, ET AL., "Protamine sulfate as an effective alternative to polybrene in retroviral-mediated gene-transfer: implications for human gene therapy", Journal of Virological Methods, 1989, Vol./Issue No. 23, pp. 187-194			<input type="checkbox"/>
		CRISTIANO, R.J. ET AL., "Hepatic Gene Therapy: Adenovirus Enhancement of Receptor-Mediated Gene Delivery and Expression in Primary Hepatocytes", Proc. Natl. Acad. Sci. USA, 1993, Vol./Issue No. 90, pp. 2122-2126			<input type="checkbox"/>
		DILBER, MS. ET AL., "Basic fibroblast growth factor increases retroviral-mediated gene transfer into human hematopoietic peripheral blood progenitor cells", Exp. Hematol, 1994, Vol./Issue No. 22:12, pp. 1129-1133			<input type="checkbox"/>
		EMONS, G. ET AL., "The Use of Luteinizing Hormone Releasing Hormone Agonists and Antagonists in Gynecological Cancers", Hum. Reprod., 1994, Vol./Issue No. 9:7, pp. 1364-1379			<input type="checkbox"/>
		FICHARD ET AL., "Another Look at Collagen V and XI Molecules", Matrix Biology, 1994, Vol./Issue No. 14, pp. 515-531			<input type="checkbox"/>
		FLASSHOVE, M. ET AL., "Increased resistance to taxol for peripheral blood progenitor cells following transduction with an MDR1-encoding retroviral vector", Exp. Hematol., 1995, Vol./Issue No. Abstract 23/8, pp. 934			<input type="checkbox"/>
		FLASSHOVE, MICHAEL, ET AL., "Ex Vivo Expansion and Selection of Human CD34+ Peripheral Blood Progenitor Cells After Introduction of a Mutated Dihydrofolate Reductase cDNA via Retroviral Gene Transfer", Blood, January 2, 1995, Vol./Issue No. 85:2, pp. 568-574			<input type="checkbox"/>
		FRIEDMANN, THEODORE, "Progress Toward Human Gene Therapy", SCIENCE, June 1989, pp. 1276-1281			<input type="checkbox"/>
		GARDNER, ELTON JOHN ET AL., "Somatic-Cell Gene Therapy Treatment of Human Diseases", Principles of Genetics, , Vol./Issue No. Chapter 24 Genetic Engineering and the Future, pp. 645-648, John Wiley & Sons, New York			<input type="checkbox"/>
		GLUCKMAN, E. ET AL., "Bone Marrow Transplantation in Fanconi Anemia", British J. of Haem., 1980, Vol./Issue No. 45, pp. 557-564			<input type="checkbox"/>
		HANENBERG, A. ET AL., "Rapid and efficient transduction of primitive hematopoietic cells; role of retrovirus adhesion in fibronectin assisted gene transfer", Blood, 1995, Vol./Issue No. 86:10, pp. 465a, Abstract JP 002076947			<input type="checkbox"/>
Examiner Signature	<i>David Williams</i>			Date Considered	1/19/06

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
Sheet	5	of	10	Application Number	10705561 09/294867
				Filing Date	11/11/2003
				First Named Inventor	David A. WILLIAMS
				Group Art Unit	1633
				Examiner Name	
				Attorney Docket Number	7037-485

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	T ²
		HARAGUCHI ET AL., "Effects of Polycations on Infection with Human Retroviruses", Int. Conf. AIDS, 1994, Vol./Issue No. 10:2, pp. 114, Abstract PA0337	<input type="checkbox"/>
		HODGSON, CLAQUE P. ET AL., "Virosomes: Cationic Liposomes Enhance Retroviral Transduction", Nature Biotechnology, 1996, Vol./Issue No. 14, pp. 339-342	<input type="checkbox"/>
		HOGGE, DONNA E. ET AL., "The Elusive Peripheral Blood Hematopoietic Stem Cell", Seminars in Hematology, 1993, Vol./Issue No. 30:4 Supp. 4, pp. 82-89	<input type="checkbox"/>
		HOOGERBRUGGE, P.M. ET AL., "Bone marrow gene transfer in three patients with adenosine deaminase deficiency", Gene Therapy, 1996, Vol./Issue No. 3, pp. 179-183	<input type="checkbox"/>
		HOWELL, A. ET AL., "Response to a Specific Antioestrogen (ICI 182780) in Tamoxifen-Resistant Breast Cancer", The Lancet, 1995, Vol./Issue No. 345, pp. 29-30	<input type="checkbox"/>
		HOWS, J.M. ET AL., "Growth of human umbilical cord blood in longterm haemopoietic cultures", Lancet, July 11, 1992, Vol./Issue No. 340, pp. 73-76	<input type="checkbox"/>
		KARLSSON, STEFAN, "Treatment of Genetic Defects in Hematopoietic Cell Function by Gene Transfer", Blood, 1991, Vol./Issue No. 78:10, pp. 2481-2492	<input type="checkbox"/>
		KASAHARA, N. ET AL., "Tissue-Specific Targeting of Retroviral Vectors Through Ligand-Receptor Interactions", Science, 1994, Vol./Issue No. 266, pp. 1373-1376	<input type="checkbox"/>
		KIMIZUKA ET AL., "Production and Characterization of Functional Domains of Human Fibronectin Expressed in Escherichia coli", J. Biochem., 1991, Vol./Issue No. 110:2, pp. 284-291	<input type="checkbox"/>
		KLIJN, J.G.M. ET AL., "Pre-Clinical and Clinical Treatment of Breast Cancer With Antiprogestins", Hum. Reprod., 1994, Vol./Issue No. 9 Supp. 1, pp. 181-189	<input type="checkbox"/>
		KOHLI-KUMAR, M. ET AL., "Haematopoietic Stem/Progenitor Cell Transplant in Fanconi Anaemia Using HLA-Matched Sibling Umbilical Cord Blood Cells", British J. Haem., 1993, Vol./Issue No. 85, pp. 419-422	<input type="checkbox"/>
		KOHN, DONALD B., "The Current Status of Gene Therapy Using Hematopoietic Stem Cells", Current Opinion in Pediatrics, 1995, Vol./Issue No. 7, pp. 56-63	<input type="checkbox"/>
		KORNBLIHTT, A.R., ET AL, "Primary structure of human fibronectin: differential splicing may generate at least 10 polypeptides from a single gene", EMBO J., 1985, Vol./Issue No. 4:7, pp. 1755-1759	<input type="checkbox"/>

Examiner Signature		Date Considered	4/19/06
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	107706,561 69/394867
(use as many sheets as necessary)				Filing Date	11/11/2003
				First Named Inventor	David A. WILLIAMS
				Group Art Unit	1633
				Examiner Name	
Sheet	6	of	10	Attorney Docket Number	7037-485

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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		KORNBLIHTT, A.R., ET AL, "Isolation and characterization of cDNA clones for humans and bovine fibronectin", Proc. Natl. Acad. Sci. USA, 1983, Vol./Issue No. 80:11, pp. 3218-3222	<input type="checkbox"/>
		KORNBLIHTT, A.R., ET AL, "Human fibronectin: molecular cloning evidence for two mRNA species differing by an internal segment coding for a structural domain", EMBO J., 1984, Vol./Issue No. Abstract 3/1 pp. 221-226	<input type="checkbox"/>
		KORNBLIHTT, A.R., ET AL, "Human fibronectin: cell specific alternative mRNA splicing generates polypeptide chains differing in the number of internal repeats", Nucleic Acids Res., 1984, Vol./Issue No. Abstract 12/14 pp. 5853-5868	<input type="checkbox"/>
		LIM, B., ET AL., "Retrovirus-Mediated Gene Transfer of Human Adenosine Deaminase: Expression of Functional Enzyme in Murine Hematopoietic Stem Cells in Vivo", Mol. Cell. Biol., 1987, Vol./Issue No. 7:10 pp. 3459-3465	<input type="checkbox"/>
		LIM, ET AL., "Long-Term Expression Of Human Adenosine Deaminase In Mice Transplanted With Retrovirus-Infected Hematopoietic Stem Cells", Proc. Natl. Acad. Sci. U.S.A., 1989, Vol./Issue No. 86, pp. 8892-8896	<input type="checkbox"/>
		LONG, MICHAEL W., "Blood Cell Cytoadhesion Molecules", Exp. Hematol, 1992, Vol./Issue No. 20, pp. 288-301	<input type="checkbox"/>
		LU, L. ET AL., "CD34 stem/progenitor cells purified from cryopreserved cord blood can be transduced with high efficiency by a retroviral vector and expanded ex vivo with stable integration and expression of fanconi anemia complement c gene", Blood, 1994, Vol./Issue No. Abstract 84/10 Suppl. 1 pp. 355a	<input type="checkbox"/>
		LUSKEY, B.D., ET AL., "Stem Cell Factor, Interleukin-3, and Interleukin-6 Promote Retroviral-Mediated Gene Transfer Into Murine Hematopoietic Stem Cells", Blood, 1992, Vol./Issue No. 80:2, pp. 396-402	<input type="checkbox"/>
		MARKOWITZ, D. ET AL., "Construction and Use of a Safe and Efficient Amphotropic Packaging Cell Line", Virology, 1988, Vol./Issue No. 167, pp. 400-406	<input type="checkbox"/>
		MARKOWITZ, D. ET AL., "A Safe Packaging Line for Gene Transfer: Separating Viral Genes on Two Different Plasmids", J. Virol., 1988, Vol./Issue No. 62:4, pp. 1120-1124	<input type="checkbox"/>
		MCGLAVE P. ET AL., "Interaction of primitive human myeloid and lymphoid progenitors with the marrow microenvironment", Blood Cells, 1994, Vol./Issue No. 20:1, pp. 121-128	<input type="checkbox"/>
		MERWIN, JUNE R. ET AL., "Targeted Delivery of DNA Using YEE(GalNAcAH)3, a Synthetic Glycopeptide Ligand for the Asialoglycoprotein Receptor", Bioconjugate Chem., 1994, Vol./Issue No. 5:6 pp. 612-620	<input type="checkbox"/>
		MILLER, A. DUSTY, "Human Gene Therapy Comes of Age", Nature, June 11, 1992, Vol./Issue No. 357, pp. 455-460	<input type="checkbox"/>

Examiner Signature	<i>M. March</i>	Date Considered	1/19/00
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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10705,561 091394867
Sheet	7	of	10	Filing Date	11/11/2003
				First Named Inventor	David A. WILLIAMS
				Group Art Unit	1633
				Examiner Name	
				Attorney Docket Number	7037-485
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published			T ²
		MOORE, KATERI A. ET AL., "Stromal Support Enhances Cell-Free Retroviral Vector Transduction of Human Bone Marrow Long-Term Culture-Initiating Cells", Blood, 1992, Vol./Issue No. 79:6, pp. 1393-1399			<input type="checkbox"/>
		MOORE, M.A., ET AL., "Gene Therapy: New Frontiers, an International Symposium", Meeting Abstract: Dublin, Ireland, Sept. 18-21, 1994, pp. 1-2			<input type="checkbox"/>
		MOORE, MALCOLM A.S., "Ex vivo expansion of cord blood-derived stem cells and progenitors", Blood Cells, 1994, Vol./Issue No. 20, pp. 468-481, Meeting Abstract			<input type="checkbox"/>
		MORITZ, T. ET AL., "Bone Marrow Extracellular Matrix Molecules Improve Gene Transfer into Human Hematopoietic Cells via Retroviral Vectors", J. Clin. Invest., 1994, Vol./Issue No. 93, pp. 1451-1457			<input type="checkbox"/>
		MORITZ, T. ET AL., "Human Cord Blood Cells as Targets For Gene Transfer: Potential Use In Genetic Therapies Of Severe Combined Immunodeficiency Disease", J. Exp. Med., 1993, Vol./Issue No. 178, pp. 529-536			<input type="checkbox"/>
		NGO, J. THOMAS ET AL., "Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox", The Protein Folding Problem and Tertiary Structure Prediction, 1994, pp. 491-495			<input type="checkbox"/>
		NOJIMA, YOSHIHISA ET AL., "Ligation of VLA-4 on T Cells Stimulates Tyrosine Phosphorylation of a 105-kD Protein", J. Exp. Med., 1992, Vol./Issue No. 175, pp. 1045-1053			<input type="checkbox"/>
		OHASHI, T., ET AL., "Efficient Transfer and Sustained High Expression of the Human Glucocerebrosidase Gene in Mice and Their Functional Macrophages Following Transplantation of Bone Marrow Transduced by a Retroviral Vector", Proc. Natl. Acad. Sci. USA, 1992, Vol./Issue No. 89			<input type="checkbox"/>
		PATEL ET AL., "Generation of interleukin-2 Secreting melanoma Cell Populations from Resected Metastatic Tumor", Human Gene Therapy, 1994, Vol./Issue No. 5, pp. 577-584			<input type="checkbox"/>
		PATEL, ET AL., "Loss of Adhesion of Murine Erythroleukemia Cells to Fibronectin During Erythroid Differentiation", Science, 1984, Vol./Issue No. 224, pp. 996-998			<input type="checkbox"/>
		PATEL, V.P. ET AL., "The Fibronectin Receptor on Mammalian Erythroid Precursor Cells: Characterization and Developmental Regulation", J. Cell Biol., 1986, Vol./Issue No. 102, pp. 449-456			<input type="checkbox"/>
		REISBACH, G. ET AL., "Characterization of hemopoietic cell populations from human cord blood expressing c-kit", Exp. Hematol., 1993, Vol./Issue No. 21, pp. 74-79			<input type="checkbox"/>
		RIDDELL, STANLEY ET AL., "T-cell mediated rejection of gene-modified HIV-specific cytotoxic T lymphocytes in HIV-infected patients", Nature Medicine, 1996, Vol./Issue No. 2:2, pp. 216-223			<input type="checkbox"/>
Examiner Signature	<i>DA Williams</i>			Date Considered	7/19/06

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Sheet	8	of	10	Attorney Docket Number	7037-485
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		RUOSLAHTI, E., "Fibronectin and Its Receptors", Ann. Rev. Biochem., 1988, Vol./Issue No. 57, pp. 375-413			<input type="checkbox"/>
		RUOSLAHTI, E., "Fibro-nectin: Purification, Immunochemical Properties, and Biological Activities", Methods in Enzymology, 1982, Vol./Issue No. 82, pp. 803-831			<input type="checkbox"/>
		RUOSLAHTI, E. ET AL., "Alignment Of Biologically Active Domains in The Fibronectin Molecule", J. Bio. Chem., 1981, Vol./Issue No. 256, pp. 7277-7281			<input type="checkbox"/>
		SAIKI, IKUO ET AL., "Inhibitory effect of fibronectin and its recombinant polypeptides on the adhesion of metastatic melanoma cells to Laminin", Jpn. J. Cancer Res., 1991, Vol./Issue No. 82, pp. 1112-1119			<input type="checkbox"/>
		SEKIGUCHI, K. ET AL., "Human Liver Fibronectin Complementary DNAs: Identification of Two Different Messenger RNAs Possibly Encoding the α and β Subunits of Plasma Fibronectin", Biochemistry, 1986, Vol./Issue No. 25, pp. 4936-4941			<input type="checkbox"/>
		SHIH, C.-C., ET AL., "Highly Preferred Targets for Retrovirus Integration", Cell, 1988, Vol./Issue No. 53, pp. 531-537			<input type="checkbox"/>
		SINGH, VINOD ET AL., "Hormonotoxins: Preparation and Characterization of Ovine Luteinizing Hormone-Gelolin Conjugate", Journal of Biological Chemistry, 1989, Vol./Issue No. 264:6, pp. 3089-3095			<input type="checkbox"/>
		SORRENTINO, BRIAN P. ET AL., "Selection of Drug Resistant Bone Marrow Cells in Vivo After Retroviral Transfer of Human MDR1", SCIENCE, July 3, 1992, Vol./Issue No. 257, pp. 99-100			<input type="checkbox"/>
		SUTHERLAND ET AL., "Characterization and Partial Purification of Human Marrow Cells Capable of Initiating Long-Term Hematopoiesis In Vitro", Blood, 1989, Vol./Issue No. 74:5, pp. 1563-1570			<input type="checkbox"/>
		TOKSOZ ET AL., "Support of Human Hematopoiesis in Long-Term Bone Marrow Cultures by Muring Stromal Cells Selectively Expressing the Membrane-Bound and Secreted Forms of the Human Homolog of the Steel Gene Product Stem Cell Factor", Proc. Natl. Acad. Sci. USA, 1992, Vol./Issue			<input type="checkbox"/>
		TOLCHER, A.W., "Current Status of Post-chemotherapy Tamoxifen in Early Breast Cancer", Oncology, November 1994, Vol./Issue No. 8/11, pp. 39-43			<input type="checkbox"/>
		TORRE, D. ET AL., "Interaction of human plasma fibronectin with viral proteins of human immunodeficiency virus", Fems. Immunol. Med. Microbiol., 1994, Vol./Issue No. 8-2, pp. 127-131			<input type="checkbox"/>
		TSAI, SCHWICKWANN ET AL., "Differential binding of erythroid and myeloid progenitors to fibroblasts and fibronectin", Blood, 1987, Vol./Issue No. 69:6, pp. 1587-1594			<input type="checkbox"/>
Examiner Signature	<i>DA Williams</i>			Date Considered	1/19/06

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number <u>107705,561 09/341867</u> Filing Date <u>11/11/2003</u> First Named Inventor <u>David A. WILLIAMS</u> Group Art Unit <u>1633</u> Examiner Name _____ Attorney Docket Number <u>7037-485</u>	
Sheet	9	of	10		
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published			T ²
		VALSESIA-WITTMANN, S. ET AL., "Modifications in the Binding Domain of Avian Retrovirus Envelope Protein to Redirect the Host Range of Retroviral Vectors", <i>J. Virol.</i> , 1994, Vol./Issue No. 68:7 pp. 4609-4619			<input type="checkbox"/>
		VAN BEUSECHEM, V.W., ET AL., "Long-Term Expression of Human Adenosine Deaminase In Rhesus Monkeys Transplanted with Retrovirus-Infected Bone-Marrow Cells", <i>Proc. Natl. Acad. Sci. USA</i> , 1992, Vol./Issue No. 89, pp. 7640-7644			<input type="checkbox"/>
		VAN DER SLUIJS, "Differential Adherence of Murine Hematopoietic Stem Cell Subsets to Fibronectin", <i>Experimental Hematology</i> , 1994, Vol./Issue No. 22, pp. 1236-1243			<input type="checkbox"/>
		VARMUS, HAROLD, "Retroviruses", <i>SCIENCE</i> , June 10, 1988, pp. 1427-1434			<input type="checkbox"/>
		VERFAILLIE, C.M., ET AL., "Differentiation of Primitive Human Multipotent Hematopoietic Progenitors Into Single Lineage Clonogenic Progenitors is Accompanied by Alterations in Their Interaction with Fibronectin", <i>J. Exp. Med.</i> 1991, Vol./Issue No. 174, pp. 693-703			<input type="checkbox"/>
MM		VERMA, IM ET AL., "Gene therapy-promises, problems, and prospects", <i>Nature</i> , 1997, Vol./Issue No. 389, pp. 239-242			<input type="checkbox"/>
		WAGNER, J.E. ET AL., "Transplantation of Umbilical Cord Blood After Myeloblastic Therapy: Analysis of Engraftment", <i>Blood</i> , 1992, Vol./Issue No. 79:7, pp. 1874-1882			<input type="checkbox"/>
		WAGNER, J.E. ET AL., "Allogenic umbilical cord blood transplantation: Report of results in 26 patients", <i>Blood</i> , 1993, Vol./Issue No. Abstract, pp. 82-86a			<input type="checkbox"/>
		WATT ET AL., "Adhesion Receptors are differentially expressed on Developing Thymocytes and Epithelium in Human Thymus", <i>Experimental Hematology</i> , 1992, Vol./Issue No. 20, pp. 1101-1111			<input type="checkbox"/>
		WIGINTON, DAN A. ET AL., "Complete Sequence and Structure of the Gene for Human Adenosine Deaminase", <i>Biochemistry</i> , 1986, Vol./Issue No. 25, pp. 8234-8244			<input type="checkbox"/>
		WILLIAMS, DAVID A. ET AL., "Fibronectin and VLA-4 in Haematopoietic Stem Cell-Microenvironment Interactions", <i>Nature</i> , 1991, Vol./Issue No. 352, pp. 438-441			<input type="checkbox"/>
		WILLIAMS, DAVID A. ET AL., "Umbilical Cord Blood Stem Cells as Targets for Genetic Modification: New Therapeutic Approaches to Somatic Gene Therapy", <i>Blood Cells</i> , 1994, Vol./Issue No. 20, pp. 504-516			<input type="checkbox"/>
		XIAO, M. ET AL., "Extensive proliferative capacity of single isolated CD34 human cord-blood cells in suspension culture", <i>Blood Cells</i> , 1994, Vol./Issue No. 20, pp. 455-467			<input type="checkbox"/>
Examiner Signature	<i>M. Muniz</i>			Date Considered	1/19/04

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		XU, L.C., ET AL., "Long-term in vivo expression of the human glucocerebrosidase gene in nonhuman primates after CD34+ hematopoietic cell transduction with cell-free retroviral vector preparations", <i>Proc. Natl. Acad. Sci. USA</i> 1995, Vol. 92, pp. 4372-4376			<input type="checkbox"/>
		XU, LINCHENG, ET AL., "Correction of the enzyme deficiency in hematopoietic cells of Gaucher patients using a clinically acceptable retroviral supernatant transduction protocol", <i>Experimental Hematology</i> 1994, Vol. 22, pp. 223-230			<input type="checkbox"/>
		YAO ET AL., "Primary myoblast-mediated gene transfer: persistent expression of human factor IX in mice", <i>Gene Therapy</i> , 1994, Vol. 1:2, pp. 99-107			<input type="checkbox"/>
		ZIEGLER, B.L. ET AL., "Phenotype analysis of umbilical cord (CB) blood CD34 cell subpopulations", <i>Blood</i> , 1992, Vol. 80 Supp. 1, pp. 408A			<input type="checkbox"/>

Examiner Signature		Date Considered	1/19/06
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
Sheet	1	of	9	Application Number	09/394,887
				Filing Date	9/13/1999
				First Named Inventor	WILLIAMS
				Group Art Unit	1632 1633
				Examiner Name	Mario Marvich
				Attorney Docket Number	7037-377
U.S. PATENT DOCUMENTS					
Examiner Initials* Cite No.	Document Number Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document		Pages, Column, Lines where Relevant Passages or Relevant Figures Appear
MM	4,727,059	02-01-1988	Binder		
MM	4,839,464	08-01-1989	McCarthy		
MM	4,980,279	12-01-1990	Peters		
MM	5,004,881	04-02-1991	Boysse		
MM	5,018,846	05-28-1991	Furcht		
MM	5,102,988	04-07-1992	Kimbzuka		
MM	5,116,368	05-26-1992	McCarthy		
MM	5,124,165	08-23-1992	Reich		
MM	5,175,096	12-29-1992	Hock		
MM	5,188,859	02-23-1993	Haberman		
MM	5,198,423	03-30-1993	Taguchi		
MM	5,229,172 A1	07-20-1993	Cahalan et al		
MM	5,289,172	03-29-1994	Badger		
MM	5,409,825	04-26-1995	Hoffman		

Examiner Signature	M. Marvich	Date Considered	1/14/06
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Sheet	2	of	9	Application Number	09/394,887	
				Filing Date	9/13/1999	
				First Named Inventor	WILLIAMS	
				Group Art Unit	1632-1633	
				Examiner Name	Maria Marlich	
				Attorney Docket Number	7037-377	
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document Country Code- Number-Kind Code (Unknown)	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T
MM		EP 0 349 342 A2	01-03-1990	Takara Shuzo Co. Lt		
MM		EP 0 399 806 A1	11-28-1990	Taguchi		
MM		JP 2 311498	12-01-1989	Takara Shuzo Co. Lt		
MM		JP 2 97397	09-04-1990	Takara Shuzo Co. Lt		
MM		WO 90/13641	11-15-1990	Gilboa		
MM		WO 93/18137 A1	09-16-1993	Shih		
MM		WO 94/02610	02-03-1994	Maresco		
MM		WO 95/26200	10-05-1995	Williams		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	09/394,867
(use as many sheets as necessary)		Filing Date	9/13/1999
		First Named Inventor	WILLIAMS
		Group Art Unit	1632 1633
		Examiner Name	Maria Marvich
Sheet	3	of	9
Attorney Docket Number 7037-377			
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. 1	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	<input checked="" type="checkbox"/> T2
MM		"Bubble Boy saved by gene therapy", BBC News, April 3, 2000	<input type="checkbox"/>
MM		"Cell-Cell Adhesion and the Extracellular Matrix", Molecular Biology of the Cell, 1983, pp. 873-713, Garland Publishing Co., New York	<input type="checkbox"/>
MM		ANDERSON, W. FRENCH, "Prospects for Human Gene Therapy", Science, 1984, Vol 236 (41673) pp. 401-9.	<input type="checkbox"/>
MM		ANDERSON, W. FRENCH, "Human Gene Therapy - SCIENCE", SCIENCE, May 8, 1992, Vol. Issue No. 256, pp. 808-813	<input type="checkbox"/>
MM		APPERLEY, J.F., ET AL, "Retroviral Gene Transfer of Human Adenosine Deaminase in Murine Hematopoietic Cells: Effect of Selectable Marker Sequences on Long-Term Expression", Amer. Soc. Hematology 1991 pp. 310-317	<input type="checkbox"/>
MM		ASHWELL, G. ET AL, "Carbohydrate-Specific Receptors of the Liver", Ann. Rev. Biochem, 1982, Vol. Issue No. 61, pp. 631-684	<input type="checkbox"/>
MM		BERNARDI ET AL, "Lymphoid Precursor Cells Adhere to Two Different Sites on Fibronectin", J. Cell Biol., 1987, Vol./Issue No. 108, pp. 489-498	<input type="checkbox"/>
MM		BIENZLE, DOROTHEE ET AL, "Gene transfer into hematopoietic stem cells: Long-term maintenance of in vitro activated progenitors without marrow ablation", Proc. Natl. Acad. Sci. USA, 1994, Vol./Issue No. 91 pp. 360-364	<input type="checkbox"/>
MM		BODINE, D.M. ET AL, "Long-term in vivo expression of a Murine Adenosine Deaminase Gene in Rhesus Monkey Hematopoietic Cells of Multiple Lineages After Retroviral-mediated Gene Transfer into CD34+ Bone Marrow Cells", Blood 1999 Vol./Issue No. 82:7 pp. 1975-1980	<input type="checkbox"/>
MM		BODINE, DAVID M., ET AL, "Development of a High-Titer Retrovirus Producer Cell Line Capable of Gene Transfer into Rhesus Monkey Hematopoietic Stem Cells", Proc. Natl. Acad. Sci. USA, 1990, Vol./Issue No. 87 pp. 3738-3742	<input type="checkbox"/>
MM		BRADLEY, T.R. ET AL, "The Growth of Mouse Bone Marrow Cells in Vitro", Aust. J. Exp. Biol. Med. Sci., 1968, Vol./Issue No. 44, pp. 287-300	<input type="checkbox"/>
MM		BROXMEYER, H.E. ET AL, "Umbilical Cord Blood Hematopoietic Stem and Repopulating Cells in Human Clinical Transplantation", Blood Cells, 1991, Vol./Issue No. 17, pp. 313-329	<input type="checkbox"/>
MM		BROXMEYER, H.E. ET AL, "The future of Umbilical Cord Transplantation", Umbilical Cord Blood Transportation, pp. 321-339	<input type="checkbox"/>
Examiner Signature	M. Marvich		Date Considered 1/14/06

*EXAMINER'S initial M reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449A/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					
(use as many sheets as necessary)					
Sheet	4	of	9	Attorney Docket Number	7037-377
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published			
MM		CARTER, ET AL., "Autologous Transplantation of Canine Long-Term Marrow Culture Cells Genetically Marked by Retroviral Vectors", Blood, 1992, Vol./Issue No. 79:2, pp. 358-384			
MM		CORNELLA, ET AL., "Protamine sulfate as an effective alternative to polybrene in retroviral-mediated gene transfer: implications for human gene therapy", Journal of Virological Methods, 1989, Vol./Issue No. 23, pp. 187-194			
MM		CRISTIANO, R.J., ET AL., "Hepatic Gene Therapy: Adenovirus Enhancement of Receptor-Mediated Gene Delivery and Expression in Primary Hepatocytes", Proc. Natl. Acad. Sci. USA, 1993, Vol./Issue No. 90, pp. 2122-2128			
MM		DILBER, MS. ET AL., "Basic fibroblast growth factor increases retroviral-mediated gene transfer into human hematopoietic peripheral blood progenitor cells", Exp. Hematol., 1994, Vol./Issue No. 22:12, pp. 1129-1133			
MM		EMONS, G. ET AL., "The Use of Luteinizing Hormone Releasing Hormone Agonists and Antagonists in Gynecological Cancers", Hum. Reprod., 1994, Vol./Issue No. 9:7, pp. 1364-1379			
MM		FICHARD ET AL., "Another Look at Collagen V and XI Molecules", Matrix Biology, 1994; Vol./Issue No. 14, pp. 515-531			
MM		FLASSHOVE, M. ET AL., "Increased resistance to taxol for peripheral blood progenitor cells following transduction with an MDR1-encoding retroviral vector", Exp. Hematol., 1995, Vol./Issue No. Abstract 23:8, pp. 934			
MM		FLASSHOVE, MICHAEL, ET AL., "Ex Vivo Expansion and Selection of Human CD34+ Peripheral Blood Progenitor Cells After Introduction of a Mutated Dihydrofolate Reductase cDNA via Retroviral Gene Transfer", Blood, January 2, 1995, Vol./Issue No. 85:2, pp. 566-574			
MM		FRIEDMANN, THEODORE, "Progress Toward Human Gene Therapy", SCIENCE, June 1989, pp. 1278-1281			
MM		GARDNER, ELTON JOHN ET AL., "Somatic-Cell Gene Therapy Treatment of Human Diseases", Principles of Genetics, Vol./Issue No. Chapter 24 Genetic Engineering and the Future, pp. 845-848, John Wiley & Sons, New York			
MM		GLUCKMAN, E. ET AL., "Bone Marrow Transplantation in Fanconi Anaemia", British J. of Haem., 1980, Vol./Issue No. 45, pp. 557-564			
MM		HANENBERG, A. ET AL., "Rapid and efficient transduction of primitive hematopoietic cells: role of retrovirus adhesion in fibronectin assisted gene transfer", Blood, 1995, Vol./Issue No. 86:10, pp. 465a			
MM		HARAGUCHI ET AL., "Effects of Polycations on Infection with Human Retroviruses", Int. Conf. AIDS, 1984, Vol./Issue No. 10:2, pp. 114			
Examiner Signature	<i>M. Marlich</i>			Date Considered	1/14/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with 37 CFR 1.59. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449A/PTO				Complete If Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/394,867	
(use as many sheets as necessary)				Filing Date	9/13/1999	
				First Named Inventor	WILLIAMS	
				Group Art Unit	1632 1633	
				Examiner Name	Maria Marvich	
Sheet	5	of	9	Attorney Docket Number	7037-377	
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s) publisher city and/or country where published				T ²
MM		HODGSON, CLAQUE P. ET AL., "Virosomes: Cationic Liposomes Enhance Retroviral Transduction", Nature Biotechnology, 1998, Vol./Issue No. 14, pp. 339-342				<input type="checkbox"/>
MM		HOGGE, DONNA E. ET AL., "The Elusive Peripheral Blood Hematopoietic Stem Cell", Seminars in Hematology, 1993, Vol./Issue No. 30:4 Supp. 4, pp. 82-89				<input type="checkbox"/>
MM		HOSHINO, K. "Effects of polycations on infection of human retroviruses", Working Group on Structure and function of HIV, "Working Report of 1993", 1994, Vol./Issue No. Partial Translation, pp. 24-27				<input type="checkbox"/>
MM		HOWELL, A. ET AL., "Response to a Specific Antiestrogen (ICI 182780) in Tamoxifen-Resistant Breast Cancer", The Lancet, 1995, Vol./Issue No. 345, pp. 29-30				<input type="checkbox"/>
MM		HOWS, J.M. ET AL, "Growth of human umbilical cord blood in longterm haemopoietic cultures", Lancet, July 11, 1992, Vol./Issue No. 340, pp. 73-78				<input type="checkbox"/>
MM		KARLSSON, STEFAN, "Treatment of Genetic Defects in Hematopoietic Cell Function by Gene Transfer", Blood, 1991, Vol./Issue No. 78:10, pp. 2481-2492				<input type="checkbox"/>
MM		KASAHARA, N. ET AL., "Tissue-Specific Targeting of Retroviral Vectors Through Ligand-Receptor Interactions", Science, 1994, Vol./Issue No. 266, pp. 1373-1376				<input type="checkbox"/>
MM		KIMIZUKA ET AL., "Production and Characterization of Functional Domains of Human Fibronectin Expressed in Escherichia coli", J. Biochem., 1991, Vol./Issue No. 110:2, pp. 284-291				<input type="checkbox"/>
MM		KLIJN, J.G.M. ET AL., "Pre-Clinical and Clinical Treatment of Breast Cancer With Antiprogestins", Hum. Reprod., 1994, Vol./Issue No. 9 Supp. 1, pp. 181-189				<input type="checkbox"/>
MM		KOHLI-KUMAR, M. ET AL., "Haematopoietic Stem/Progenitor Cell Transplant in Fanconi Anaemia Using HLA-Matched Sibling Umbilical Cord Blood Cells", British J. Haem., 1993, Vol./Issue No. 85, pp. 419-422				<input type="checkbox"/>
MM		KORNBLIHT, A.R., ET AL, "Isolation and characterization of cDNA clones for human and bovine fibronectin", Proc. Natl. Acad. Sci. USA, 1983, Vol./Issue No. 80:11, pp. 3218-3222				<input type="checkbox"/>
MM		KORNBLIHT, A.R., ET AL, "Human fibronectin: cell specific alternative mRNA splicing generates polypeptide chains differing in the number of internal repeats", Nucleic Acids Res., 1984, Vol./Issue No. Abstract 12/14, pp. 5853-5868				<input type="checkbox"/>
MM		KORNBLIHT, A.R., ET AL, "Human fibronectin: molecular cloning evidence for two mRNA species differing by an internal segment coding for a structural domain", EMBO J., 1984, Vol./Issue No. Abstract 3/1, pp. 221-226				<input type="checkbox"/>
Examiner Signature	<i>M. Marvich</i>			Date Considered	1/14/06	

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Sheet	6	of	9	Application Number	09/394,867
				Filing Date	9/13/1999
				First Named Inventor	WILLIAMS
				Group Art Unit	163
				Examiner Name	Maria Merviah
				Attorney Docket Number	7037-377
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published			T ²
MM		KORNBLUHT, A.R., ET AL, "Primary structure of human fibronectin: differential splicing may generate at least 10 polypeptides from a single gene", EMBO J., 1986, Vol./Issue No. 4:7, pp. 1755-1759			<input type="checkbox"/>
MM		LIM, B., ET AL, "Retrovirus-Mediated Gene Transfer of Human Adenosine Deaminase: Expression of Functional Enzyme In Murine Hematopoietic Stem Cells In Vivo", Mol. Cell. Biol., 1987, Vol./Issue No. 7:10, pp. 3459-3465			<input type="checkbox"/>
MM		LIM, ET AL, "Long-Term Expression Of Human Adenosine Deaminase In Mice Transplanted With Retrovirus-Infected Hematopoietic Stem Cells", Proc. Natl. Acad. Sci. U.S.A., 1989, Vol./Issue No. 86, pp. 8892-8898			<input type="checkbox"/>
MM		LONG, MICHAEL W., "Blood Cell Cytoadhesion Molecules", Exp. Hematol, 1992, Vol./Issue No. 20, pp. 288-301			<input type="checkbox"/>
MM		LU, L. ET AL., "CD34 stem/progenitor cells purified from cryopreserved cord blood can be transduced with high efficiency by a retroviral vector and expanded ex vivo with stable integration and expression of feline immunodeficiency virus cDNA", Blood, 1994, Vol./Issue No. Abstract 84/10. S10m. 1, pp. 356a			<input type="checkbox"/>
MM		LUSKEY, B.D., ET AL., "Stem Cell Factor, Interleukin-3, and Interleukin-6 Promote Retroviral-Mediated Gene Transfer Into Murine Hematopoietic Stem Cells", Blood, 1992, Vol./Issue No. 80:2, pp. 396-402			<input type="checkbox"/>
MM		MARKOWITZ, D. ET AL., "A Safe Packaging Line for Gene Transfer: Separating Viral Genes on Two Different Plasmids", J. Virol., 1988, Vol./Issue No. 62:4, pp. 1120-1124			<input type="checkbox"/>
MM		MARKOWITZ, D. ET AL., "Construction and Use of a Safe and Efficient Amphotropic Packaging Cell Line", Virology, 1988, Vol./Issue No. 167, pp. 400-408			<input type="checkbox"/>
MM		MCGLAVE P. ET AL., "Interaction of primitive human myeloid and lymphoid progenitors with the marrow microenvironment", Blood Cells, 1984, Vol./Issue No. 20:1, pp. 121-128			<input type="checkbox"/>
MM		MERWIN, JUNE R. ET AL., "Targeted Delivery of DNA Using YEE(GalNAcAH)3, a Synthetic Glyopeptide Ligand for the Asialoglycoprotein Receptor", Bioconjugate Chem., 1994, Vol./Issue No. 5:6, pp. 612-620			<input type="checkbox"/>
MM		MILLER, A. DUSTY, "Human Gene Therapy Comes of Age", Nature, June 11, 1992, Vol./Issue No. 357, pp. 455-460			<input type="checkbox"/>
MM		MOORE, KATERIA A. ET AL., "Stromal Support Enhances Cell-Free Retroviral Vector Transduction of Human Bone Marrow Long-Term Culture-Initiating Cells", Blood, 1992, Vol./Issue No. 79:8, pp. 1393-1399			<input type="checkbox"/>
MM		MOORE, M.A., ET AL., "Gene Therapy: New Frontiers, an International Symposium", Meeting Abstract Dublin, Ireland, Sept. 18-21, 1994, pp. 1-2			<input type="checkbox"/>
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MM		MOORE, MALCOLM A.S., "Ex vivo expansion of cord blood-derived stem cells and progenitors", Blood Cells, 1994, Vol./Issue No. 20, pp. 468-481				<input type="checkbox"/>
MM		NGO, ET AL., "The Protein Folding Problem and Tertiary Structure Prediction", 1994, pp. 492-498, Birkhäuser, Boston, US				<input type="checkbox"/>
MM		NOJIMA, YOSHIHISA ET AL., "Ligation of VLA-4 on T Cells Stimulates Tyrosine Phosphorylation of a 105-kD Protein", J. Exp. Med., 1992, Vol./Issue No. 175, pp. 1045-1053				<input type="checkbox"/>
MM		OHASHI, T., ET AL., "Efficient Transfer and Sustained High Expression of the Human Glucocerebrosidase Gene in Mice and Their Functional Macrophages Following Transplantation of Bone Marrow Transduced by a Retroviral Vector", Proc. Natl. Acad. Sci. USA, 1992 Vol./Issue No. 89				<input type="checkbox"/>
MM		PATEL ET AL., "Generation of Interleukin-2 Secreting Melanoma Cell Populations from Resected Metastatic Tumor", Human Gene Therapy, 1994, Vol./Issue No. 6, pp. 577-584				<input type="checkbox"/>
MM		PATEL, ET AL., "Loss of Adhesion of Murine Erythroleukemia Cells to Fibronectin During Erythroid Differentiation", Science, 1984, Vol./Issue No. 224, pp. 996-998...				<input type="checkbox"/>
MM		REISBACH, G. ET AL., "Characterization of Hemopoietic Cell Populations from Human Cord Blood Expressing c-kit", Exp. Hematol., 1993, Vol./Issue No. 21, pp. 74-79				<input type="checkbox"/>
MM		RUOSLAHTI, E., "Fibronectin: Purification, Immunochemical Properties, and Biological Activities", Methods in Enzymology, 1982, Vol./Issue No. 82, pp. 803-831				<input type="checkbox"/>
MM		RUOSLAHTI, E., "Fibronectin and Its Receptors", Ann. Rev. Biochem., 1988, Vol./Issue No. 57, pp. 375-413				<input type="checkbox"/>
MM		RUOSLAHTI, E. ET AL., "Alignment Of Biologically Active Domains In The Fibronectin Molecule", J. Bio. Chem., 1981, Vol./Issue No. 256, pp. 7277-7281				<input type="checkbox"/>
MM		SAIKI, IKUO ET AL., "Inhibitory Effect of Fibronectin and Its Recombinant Polypeptides on the Adhesion of Metastatic Melanoma Cells to Laminin", Jpn. J. Cancer Res., 1991, Vol./Issue No. 82, pp. 1112-1119				<input type="checkbox"/>
MM		SEKIGUCHI, K. ET AL., "Human Liver Fibronectin Complementary DNAs: Identification of Two Different Messenger RNAs Possibly Encoding the α and β Subunits of Plasma Fibronectin", Biochemistry, 1986 Vol./Issue No. 25 pp. 4936-4941				<input type="checkbox"/>
MM		SHIH, C-C., ET AL., "Highly Preferred Targets for Retrovirus Integration", Cell, 1988, Vol./Issue No. 53, pp. 531-537				<input type="checkbox"/>
Examiner Signature	<i>Maria Marvich</i>				Date Considered	1/14/06

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Substitute for form 1449A/PTO				Complete If Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/394,887	
(use as many sheets as necessary)				Filing Date	9/13/1999	
				First Named Inventor	WILLIAMS	
				Group Art Unit	1632 1633	
				Examiner Name	Maria Mervich	
Sheet	8	of	9	Attorney Docket Number	7037-377	
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	CTle No. 1	Name(s) of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published				T-2
MM		SINGH, VINOD ET AL, "Hormonotoxins: Preparation and Characterization of Ovine Luteinizing Hormone-Gonadotropin Conjugates", Journal of Biological Chemistry, 1989, Vol./Issue No. 264:6, pp. 3089-3098				<input type="checkbox"/>
MM		SORRENTINO, BRIAN P. ET AL, "Selection of Drug Resistant Bone Marrow Cells in Vivo After Retroviral Transfer of Human MDR1", SCIENCE, July 3, 1992, Vol./Issue No. 257, pp. 99-100				<input type="checkbox"/>
MM		SUTHERLAND ET AL, "Characterization and Partial Purification of Human Marrow Cells Capable of Initiating Long-Term Hematopoiesis In Vitro", Blood, 1988, Vol./Issue No. 74:5, pp. 1563-1570				<input type="checkbox"/>
MM		TOKSOZ ET AL, "Support of Human Hematopoiesis in Long-Term Bone Marrow Cultures by Murine Stromal Cells Selectively Expressing the Membrane-Bound and Secreted Forms of the Human Homolog of the Steel Gene Product Stem Cell Factor", Proc. Natl. Acad. Sci. USA, 1992, Vol./Issue				<input type="checkbox"/>
MM		TOLCHER, A.W., "Current Status of Post-chemotherapy Tamoxifen In Early Breast Cancer", Oncology, November 1994, Vol./Issue No. 8/11, pp. 39-43				<input type="checkbox"/>
MM		TORRE, D. ET AL, "Interaction of human plasma fibronectin with viral proteins of human immunodeficiency virus", Fems. Immunol. Med. Microbiol., 1994, Vol./Issue No. 8-2, pp. 127-131				<input type="checkbox"/>
MM		TSAI, SCHWICKWANN ET AL, "Differential binding of erythroid and myeloid progenitors to fibroblasts and fibronectin", Blood, 1987, Vol./Issue No. 69:6, pp. 1587-1594				<input type="checkbox"/>
MM		VALSESSA-WITTMANN, S. ET AL, "Modifications in the Binding Domain of Avian Retrovirus Envelope Protein to Redirect the Host Range of Retroviral Vectors", J. Virol., 1994, Vol./Issue No. 68:7 pp. 4609-4619				<input type="checkbox"/>
MM		VAN BEUSECHEM, V.W., ET AL, "Long-Term Expression of Human Adenosine Deaminase in Rhesus Monkeys Transplanted with Retrovirus-Infected Bone Marrow Cells", Proc. Natl. Acad. Sci. USA, 1992, Vol./Issue No. 89, pp. 7640-7644				<input type="checkbox"/>
MM		VAN DER SLUIJS, "Differential Adherence of Murine Hematopoietic Stem Cell Subsets to Fibronectin", Experimental Hematology, 1994, Vol./Issue No. 22, pp. 1236-1243				<input type="checkbox"/>
MM		VARMUS, HAROLD, "Retroviruses", SCIENCE, June 10, 1988, pp. 1427-1434				<input type="checkbox"/>
MM		VERFAILLIE, C.M., ET AL, "Differentiation of Primitive Human Multipotent Hematopoietic Progenitors Into Single Lineage Clonogenic Progenitors is Accompanied by Alterations in Their Interaction with Fibronectin", J. Exp. Med., 1991, Vol./Issue No. 174, pp. 693-703				<input type="checkbox"/>
MM		WAGNER, J.E. ET AL, "Transplantation of Umbilical Cord Blood After Myeloblastic Therapy: Analysis of Engraftment", Blood, 1992, Vol./Issue No. 79:7, pp. 1874-1882				<input type="checkbox"/>
Examiner Signature	<i>M. Mervich</i>			Date Considered	1/14/06	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/394,857
(use as many sheets as necessary)				Filing Date	9/13/1999
				First Named Inventor	WILLIAMS
				Group Art Unit	1622-1632
				Examiner Name	Maria Marlich
Sheet	9	of	9	Attorney Docket Number	7037-377
OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published			
MM		WAGNER, J.E. ET AL., "Allogenic umbilical cord blood transplantation: Report of results in 26 patients", Blood, 1993, Vol./Issue No. Abstract, pp. 82-86a			
MM		WATT ET AL., "Adhesion Receptors are differentially expressed on Developing Thymocytes and Epithelium in Human Thymus", Experimental Hematology, 1992, Vol./Issue No. 20, pp. 1101-1111			
MM		WIGINTON, DAN A. ET AL., "Complete Sequence and Structure of the Gene for Human Adenosine Deaminase", Biochemistry, 1988, Vol./Issue No. 25, pp. 8234-8244			
MM		WILLIAMS, DAVID A. ET AL., "Fibronectin and VLA-4 in Haematopoietic Stem Cell-Microenvironment Interactions", Nature, 1991, Vol./Issue No. 352, pp. 438-441			
MM		XIAO, M. ET AL., "Extensive proliferative capacity of single isolated CD34 human cord blood cells in suspension culture", Blood Cells, 1994, Vol./Issue No. 20, pp. 455-467			
MM		XU, L.C., ET AL., "Long-term in vivo expression of the human glucocerebrosidase gene in nonhuman primates after CD34+ hematopoietic cell transduction with cell-free retroviral vector preparations", Proc. Natl. Acad. Sci. USA, 1995, Vol./Issue No. 92, pp. 4372-4378			
MM		XU, LINCHENG, ET AL., "Correction of the enzyme deficiency in hematopoietic cells of Gaucher patients using a clinically acceptable retroviral supernatant transduction protocol", Experimental Hematology, 1994, Vol./Issue No. 22, pp. 223-230			
MM		YAO ET AL., "Primary myoblast-mediated gene transfer: persistent expression of human factor IX in mice", Gene Therapy, 1994, Vol./Issue No. 1:2, pp. 99-107			
MM		ZIEGLER, B.L. ET AL., "Phenotype analysis of umbilical cord (CB) blood CD34 cell subpopulations", Blood, 1992, Vol./Issue No. 80 Supp. 1, pp. 408A			

Examiner Signature	M. Marlich	Date Considered	1/14/06
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